

AVAKUMOVICH, V. G.

Curve

Avakumović, Volslav G. Über die Scheitel der geschlossenen Kurven. Srpska Akad. Nauka: Zbornik Radova 35, Mat. Inst. 3, 147-152 (1953). (Serbo-Croatian. German summary)

A curve  $C$  in three-space is called convex if to any two points of  $C$  there exists a plane which has these and only these two points in common with  $C$ . Consider  $C$  as lying on a surface  $S$ . Then  $C$  has a geodesic curvature  $K_g$  and normal curvature  $K_n$ . The author proves that if  $C$  is convex and closed (and four times continuously differentiable) then both  $K_g$  and  $K_n$  have at least four extrema. When  $S$  is a sphere, this theorem includes Fog's generalization of a theorem of Mukhopadhyaya [Fog S.B. Preuss. Akad. Wiss. 1933, 251-254].

W. S. Veitch (Princeton, N. J.)

AVRANČIĆ, J. [G.]

"A note on a question set by P. Erdos and L. K. Hua. In English. p. 47,  
(PUBLICATIONS, Vol. 6, 1954, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions, (MEAL), LC, Vol. 4, No. 4,  
Apr 1955, Uncl.

AVAKUMOVIC, V.

AVAKUMOVIC, V. Existence of the solution of the problem of limits of nonlinear differential equations of the second order . p. 120

Vol. 19, No. 6, 1954  
BULLETIN  
SCIENCE  
Belgrade

So: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), LC, Vol. 4, no. 9,  
Sept. 1955, Uncl.

AVAKIMOVIC, V.

Remark on Fatou-Riesz's theorem. In English. p. 85.

Srpska akademija nauka. Matematički institut. PUBLICATIONS.  
Beograd, Yugoslavia. Vol. 8, 1955.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug., 1959.

Uncl.

AVAKUMOVIC, VOJISLAV

✓ Avakumović, Vojislav G. Über die Eigenfunktionen auf geschlossenen Riemannschen Mannigfaltigkeiten. Math. Z. 65 (1956), 327-344.  
Let

1-F/W

$$\frac{1}{g^{\frac{1}{2}}} \frac{\partial}{\partial x_i} \left( g^{\frac{1}{2}} g^{ik} \frac{\partial}{\partial x^k} \right)$$

3

be the Laplace operator on a compact  $N$ -dimensional Riemannian space  $M$  of total volume  $L$  and let  $0 = \lambda_0 < \lambda_1 < \lambda_2 < \dots$ ,  $\Phi_0 = 1, \Phi_1, \Phi_2, \dots$  be its eigenvalues and eigenfunctions. For the dimension  $N=3$  the author proves the precise estimate

$$\sum_{\lambda \leq \lambda} 1 = \frac{1}{6\pi^2} \lambda^{3/2} - O(\lambda) = \sum_{\lambda \leq \lambda} \Phi_n^2(P),$$

as  $\lambda \rightarrow \infty$  and  $O(\lambda)$  cannot be replaced by  $o(\lambda)$  even for the 3-sphere. The previously best known estimate was only  $O(\lambda^{3/2}) = O(\lambda^{N/2})$ , due to Minakshisundaram and Pleijel (Canad. J. Math. 1 (1949), 142-256; MR 11, 108). For the ordinary Laplacian in an  $N$ -dimensional domain with sufficiently smooth boundary this precise estimate had been previously established by the author [Acad. Serbe Sci. Publ. Inst. Math. 4 (1952), 95-96; MR 14, 278] and by Levitan (Dokl. Akad. Nauk. SSSR (N.S.) 90 (1953), 133-134; MR 15, 129). J. Hochner (Princeton, N.J.)

Spencer  
MT

AVAKYAN, A. A.

Hybridization by Grafting, 1936-1940.

Dir., Genetics Lab., All-Union Acad. Agricultural Sci. im. V. I. Lenin.

AVAKYAN, A. A.

The Vegetative Hybridization of the Potato, *1936-40*

Dir., Genetics Lab., All-Union Acad. Agricultural Sci. im. V. I. Lenin.

AVAKYAN, A. A.

The Vernalization of Rice, 1936-40

Dir., Genetics Lab., All-Union Acad. Agricultural Sci. im. V. I. Lenin.

AVAKYAN, A. A.

The Biology of the Development of Plant Organisms, 1936-40

Dir., Genetics Lab., All-Union Acad. Agricultural Sci. im. V. I. Lenin.

AVAKYAN, A. A.

PA 51762

USSR/Medicine - Plants Medicine - Hormones	Jan/Feb 1948
"Phase Processes and the So-Called Flowering Hormones," A. A. Avakyan, Corr Mem, Acad Sci. USSR, 31 pp	
"Agrobiologiya" No 1	
Describes in general the action and effects of hormones on the flowering and growth of plants. Describes experiments conducted in 1946 and 1947 to explain the nature of the hormone, which causes the flowering of plants.	
LC	51762

AVAKYAN, A. A.

"Some Problems of the Individual Growth of Plants," Agrobiol. 2, 1948.

Experimental Base, All-Union Acad. Agricultural Sci. im. V. I. Lenin.

1. AVAKYAN, Ar. A.
2. USSR (600)
4. Lallemantia
7. Studying wild species of the lallemantiae (*Lallemantia iberica* and *Lallemantia peltata*). *Biul. Bot. sada AN Arm. SSSR* no.5 1948

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

AVAKYAN, A. A. i YASTREB, M.

42437. O nalichii Priznakov dvukh ottsovskikh sortov V gibridnom potomstve.  
Agrobiologiya, 1948, No. 5, S. 58-69.

1. AVAKYAN, Ar. A.
2. USSR (600)
4. Lallemantia
7. New variety of Lallemantia iberica, "Norek". Bil. Fot. sada AN Arm. SSR no. 6 1948.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Uncl.

**ZOLOTNITSKAYA, S.Ye.; AVAKYAN, A.A.**

Effect of thiocarbamide on the fruiting and root system of field crops. Dokl. **AN** Arm. SSR 9 no.1:39-44 '48. (MIRA 9:10)

1. Botanicheskiy sad Akademii nauk Argyanskoj SSR, Yerevan. Predstavleno M.Kh. Chaylakhyanom.  
(Urea) (Field crops)

AVAKYAN, A. A.

"The Irreversibility of Phase Processes," *Agrobiol.*, No. 6, 1949.

Dir., Genetics Lab., All-Union Acad. Agricultural Sci. im. V. I. Lenin.

AVAKYAN, A.A.

Length of viability retention in seeds of certain wild plants  
species. Biol.Bot.sada [Triv.] no.3:49-53 '49. (MLBA 9:8)  
(Seeds)

AVAKYAN, A.A.

Economic botanical features of the wild crested wheat grass of  
the Armenian S.S.R. Biul.Bot.sada [Eriv.] no.14:55-66 '54.

(MIRA 9:8)

(Armenia--Wheat grass)

USSR/Cultivated Plants. Commercial. Oil-Bearing. Sugars. M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20383.

Author : ~~Avalyan~~

Inst : Not given

Title : The Effect of Several Factors on the Concentration of Cellular Fluid in Cotton. (Vliyaniye nekotorykh faktorov na kontsentratsiyu kletochnogo soka khlopchatnika).

Orig Pub: Nauchn. tr. Yerevansk. un-t, 1956, 54, ch. 2, 77-85.

Abstract: Research conducted by the faculty of genetics and darwinism shows that during plant development the tissues and individual organs undergo radical physiological and biochemical changes, accompanied by variations in the concentration of cellular fluid which depends to a significant degree on the condi-

Card : 1/2

*AVAKYAN, Arto Arkad'yevich*

AVAKYAN, Arto Arkad'yevich; KATSNEL'SON, S.M., red.; GUBIN, M.I., tekhn.red.

[Mixed organic and mineral fertilizers] Organo-mineral'nye  
udobrenia. Moskva, Izd-vo "Znanie," 1957. 24 p. (Vsesoiuznoe  
obshchestvo po rasprostraneniю politicheskikh i nauchnykh znanii.  
Ser.5, no.27) (MIRA 11:1)

(Fertilizers and manures)

Country : USSR  
Category: Soil Science. Organic Fertilizers.

J

Abs Jour: RZhBiol., No 14, 1958, No 63104

Author : Avakyan, A.A.

Inst : -

Title : Increasing the Effectiveness of Fertilizers (experiment on the Use of Organic-Mineral Mixtures in the Lenin Hills)

Orig Pub: Agrobiologiya, 1957, No 4, 59-78

Abstract: On the Gor'ky-Lenin Experimental Farm, organic-mineral mixtures of fertilizers have been used widely under all crops since 1949. In 1954 the grain harvest of winter wheat on the control plots varied between 4.9 and 15.2 centners/hectare. The greatest crop increase, 8.4 centners/hectare,

Card : 1/3

J-44

Country : USSR  
Category: Soil Science. Organic Fertilizers.

J

Abs Jour: RZhBiol., No 14, 1958, No 63104.

was obtained with an application of 3 tons of manure + 2 centners of superphosphate + 3 centners of lime; the application of only 3 centners of lime yielded an addition of 7.0 centners/hectare. In an experiment with Slavo cabbage in 1955 the yield from the control plots varied from 19.0 to 93.3 centners/hectare; the highest yield, 165 centners/hectare, was obtained with an application of 4 tons of manure + 3 centners of lime, but upon repetition of the same experiment the crop consisted of 116.1 centners/hectare. With an application of 1 centner of  $P_2$  the yield was 53.3 centners/hectare, and with the application of 0.5 centners of  $P_2$ , 120.9

Card : 2/3

Country : USSR

J

Category: Soil Science. Organic Fertilizers.

Abs Jour: RZhBiol., No 14, 1958, No 63104

centners/hectare; figures on repetitions of these experiments are not given. Results are presented of experiments on a series of crops. In experiments with potato material known to be degenerate, the potato was brought into a completely healthy state in 2-3 years, in the opinion of the author, by the action of the organic-mineral mixture. ---  
Z.I. Zhurbitskiy

Card : 3/3

J-45

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AVAKYAN, A.A.; ASLANYAN, T.K.

Some data on the germinating force of seeds of some wild grasses  
in Armenia. Biul. Bot. Sada [Priv.] no.16:101-106 '57. (MLBA 10:9)  
(Armenia--Grasses) (Germination)

COUNTRY : USSR  
CATEGORY : General Biology. B  
          : Genetics. Plant Genetics.  
ABS. JOUR. : RZhBiol., No. 5, 1959, No. 19153  
AUTHOR : Avakyan, A. A.  
LIST. :  
TITLE : The Biological Nature of Interspecific grafted  
          : Chimeras.  
ORIG. PUB. : Zh. obshch. biol., 1957, 18, No 6, 423-435  
ABSTRACT : As a result of grafting shoots derived from  
          : callus at the site where the scion of redhead  
          : cabbage adnates with a whitehead cabbage scion  
          : plants were obtained whose seeds produced red  
          : as well as green plants. In vegetative repro-  
          : duction of chimeral cabbage shrubs, sectoral  
          : distribution of red and green coloring is  
          : accompanied by phenomena of tissue interaction  
          : resulting in a less intensive or changed color.  
          : It is reported that when red leaves of chimeral

CARD: 1/3

COUNTRY : USSR  
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT : origin were rooted, plants of pure red color were produced whose general characteristics however as well as flowers, anthers and pods differed greatly from the primary redhead cabbage which produced a splitting into red and green progeny. As a result of vegetative re-production of green sprouts of the maternal chimera shrubs, very variable and pliable forms were obtained, in whose seed's progeny red as well as green plants were also found. The presented data pertaining to splitting occurring

Card: 2/3

COUNTRY : USSR  
CATEGORY :

ABS. JOUR. : RZhBiol., No. 1959, No.

AUTHOR :  
INST. :  
TITLE :

ORIG. PUB. :

ABSTRACT :in individual families of progenies obtained  
from seeds, are not sufficient. -- V. P. Efroimson.

CARD: 3/3

35

AVAKYAN, A.A.

Effect of interspecific hybridization in creating a soft branched  
wheat. Dokl. Akad. sel'khoz. 22 no.2:3-7 '57. (MIRA 10:5)  
(Wheat breeding)

AVAKYAN, A.A.

Materials on the study of wild oilseed plants from the flora of  
Armenia. Izv. AN Arm.SSR, Biol.nauki 12 no.8:61-72 Ag '59.  
(MIRA 12:12)

1. Botanicheskiy institut AN ArmSSR.  
(ARMENIA--OILSEED PLANTS)

AVAKYAN, A.A. akademik

Stubble cropping as means of obtaining additional crop yields  
in the non-Chernozem zone. Dokl. Akad. sel'khoz. 24 no.6:3-6  
'59. (MIRA 12:9)

(Field crops)

AVAKYAN, Artovazd Arshakovich

[Biology of the development of agricultural plants] Biologiya  
razvitiia sel'skokhoziaistvennykh rastenii. Moskva, Gos. izd-  
vo sel'khoz. lit-ry, 1960. 462 p. (MIRA 14:8)  
(Plants—Evolution) (Plant physiology)

AVAKYAN, A.A.akademik

Biological nature of dual-purpose plants. Agrobiologia no.1:  
27-41 Ja-F '60. (MIRA 13:5)  
(Grain--Varieties)

AVAKYAN, A.A.

Vernalization stage in some winter wheat varieties. *Agrobiologia*  
no.4:490-495 J1-Ag '60. (MIRA 13:8)

1. Eksperimental'naya baza Instituta genetiki AN SSSR, Gorki  
Leninskiye.  
(Wheat--Varieties) (Vernalization)

AVAKYAN, A.A.

Controlling development of hybrid plants of the first and second generations. Agrobiologiya no.1:8-25 Ja-F '62. (MIRA 15:3)

1. Eksperimental'naya baza Instituta genetiki AN SSSR, Gorki Leninskiye, Moskovskaya oblast'.  
(Hybridization, Vegetable)

AVAKYAN, A.A.; SHUMANSKAYA, M.G.

Planting together late and early varieties of corn. *Agrobiologia*  
no.2:283-287 Mar-Apr '62. (MIRA 15:4)  
(Corn (Maize)--Varieties)

AVAKYAN, Artavazd Arshakovich

[Biology of the development of agricultural plants] Biologiya  
razvitiia sel'skokhoziaistvennykh rastenii. 2. izd. Moskva,  
Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1962. 485 p.  
(MIRA 15:12)

(Plants—Evolution) (Genetics)

AVAKYAN, A.A., akademik

Controlled change of hereditary winter varieties into spring crops  
and vice versa. Agrobiologiya no.2:167-182 Mr-Apr '63.

(MIRA 16:7)

1. Eksperimental'naya baza Instituta genetiki AN SSSR, Gorki Leninskiye,  
Moskovskaya oblast'. Vsesoyuznaya akademiya sel'skokhozyaystvennykh  
nauk imeni Lenina.

(Grain) (Vernalization)

AVAKYAN, A.A.; SHUMANSKAYA, M.G.

Biological nature of the process of fertilization. Agrobiologia  
no.5:643-651 S-0'63. (MIRA 17:5)

1. Eksperimental'naya instituta genetiki AN SSSR, "Gorki  
Leninskiye", Moskovskaya oblast'.

AVAKYAN, A.A., gornyy inzh.

Yielding supports can not be used in major workings. Ugol' Ukr.  
7 no.11:19-20 N '63. (MIRA 17:4)

1. Dongiprouglemash.

KIRPOTA, Ya.A., gornyy inzh.; SHUKHACHEV, A.P., gornyy inzh. (Karaganda);  
AVAKYAN, A.A., inzh.

Readers' response to the article by M.A.Magoichenkov, and V.N.  
Diadyk "Record of blasting operations in coal mines"; "Ugol",  
1962, No.12. Ugol' 39 no.1:64-65 Ja 64. (MIRA 17:3)

1. Tsentral'nyy komitet professional'nogo soyuza rabochikh ugol'noy  
promyshlennosti (for Kirpota). 2. Dngiprouglemash (for Avakyan).

AVAKYAN, A.A.

Information work at the Armenian Electrical Engineering Plant.  
NTI no.12:24 '63. (MIRA 17:6)

1. Nachal'nik Byuro tekhnicheskoy informatsii Armyanskogo  
elektromashinostroitel'nogo zavoda imeni Lenina, Yerevan.

AVAKYAN, A.A.

Biology of fertilization. Agrobiologia no.5:698-77 S-0 '64.

AVAKYAN, Artur Borisovich; ROMASHKOV, Ye-geniy Grigor'yevich;  
ABRAMOV, L.S., red.; POLOZHENTSEVA, T.S., mlad. red.

[Planetary surgery] Planetnaia khirurgiia. Moskva, Mysl',  
1965. 222 p. (MIRA 18:4)

AVAKYAN, A.A. and ALEKSANYAN, A.V.

"Similarities and Differences in Dysentery and Dysentery-Like Diseases,"  
1947.

Inst. Epidemiol. & Microbiol. and/Or Dept. Epidemiol. Med. Inst. Yerevan.

AVAKYAN, A.A.; Gagarina, A.V.; Lebedeva, A.D; Ravdonikas, O.V; Chumakov, M.P.

"The Transmitter and the Reservoirs of Virus-Caused Omsk Hemorrhagic Fever, IV NSIH (IV Nauchnaya Sessiya Instituta Nevrologii, AMN, SSR, Tezisy Dokladov, —Fourth Scientific Session of the Institute of Neurology, Academy of Medical Sciences USSR, Theses of Reports), 1949.

(Problems of Regional Pathology, Issue II, Hemorrhagic Fever in Uzbekistan, 1952, Pub. House of the Academy of Sciences Uzbek SSR, 159 pp.)  
W-25668, 31 Mar 53

AVAKYAN, A. A.

AVAKYAN, A. A. "The epidemiology of amebiasis in certain endemic foci and outside of them", In the collection; Voprosy kravevoy, obshchev i eksperim. parazitologii, Vol. IV, Moscow, 1949, p. 159-62.

SO: U-4393, 19 August 53, (Letopis 'Zhurnal 'nykh Statey', No. 22, 1949).

AVAKYAN, N-N.

CHUMAKOV, M.P.; FRADKIN, M.Ya.; SHLYKOVA, B.D.; AVAKYAN A.A.; ZAITSEVA N.S.

New method for trachoma control; therapy with chloromycetin  
I and synthomycin. Vest. oft., Moskva 30 no.3:3-9 May-June 51.

(GINL 21:1)

1. Of the State Scientific-Research Institute for Eye  
Diseases imeni Gel'mgol'ts and of the Institute of Viru-  
sology imeni Ivanovskiy of the Academy of Medical Sciences  
USSR.

AVAKYAN, A. A.

AVAKYAN, A. A. -- "Amebiasis and Reservoirs of Pathogenic Elements  
in Human Intestines." Sub 16 May 52, Acad Med Sci USSR. (Dissertation  
for the Degree of Doctorate in Medical Sciences).

SO: Vechernaya Moskva January-December 1952

AVAKYAN, A.A.

25670

USSR/Medicine - Virus Diseases

Jun 53

"Intranuclear Occlusions in Poliomyelitis,"  
L.M. Popova and A.A. Avakyan, Lab of Histopat  
of the Nerv Sys and Lab of Virus Neuro-Infect,  
Inst of Neurol, Academy Med Sci USSR

Zhur Nevropat i Psikh, Vol 53, No 6, pp 450-454

2  
Detailed description of the results of a micro-  
scopic examination of brain specimens obtained  
from children and monkeys who died of poliomye-  
litis. Authors state that oxyphilic occlusions  
were observed in the cytoplasm and nucleus of  
affected nerve cells. The occlusions differed

256T61

from those observed in herpes and tick-borne  
encephalitis in size and structure and showed  
a characteristic change of the nucleus con-  
taining the occlusions. In contrast to Negri  
bodies found in rabies of dogs, the polio in-  
tranuclear occlusions show a positive reaction  
for thymonucleic acid.

AVAKYAN, A. A.

Development and propagation of the trachoma virus and the nature of intracellular occlusions. A. A. Avakyan and A. T. Akopyan. *Vestnik Oftalmol.* 32, No. 10 (1954). — Morphological examn. of material on trachoma shows that the intracellular occlusions in this disease have the nature of a virus. They give a pos. thymidine acid reaction. The virus bodies are poorly stained with fuchsin but well stained with methylene blue. G. M. Kosolapoff

U S S R .

✓ Absorption of phosphorus by the phosphorus compounds of the brain following the injection of radioactive phosphorus. D. E. Grodzenskiĭ and A. A. Avakyan (Inst. Neurol., Acad. Med. Sci. U.S.S.R., Moscow). *Byull. Eksp. Biol. i Med.* 38, No. 7, 37-41 (1954). In previous expts. it was found that radioactive P administered intravenously, subcutaneously, or perorally is slowly absorbed by the brain. A much more rapid absorption takes place when the isotope is injected directly into the brain. It is taken up by the inorg., acid-sol., phospholipid, and phosphoprotein P fractions. The specific activity of each of these fractions is measured by dividing the no. of impulses per min. per g. of tissue by the amt. of P present in the fraction. Thus, it was found that the inorg. P fraction has the highest specific activity, followed by those of the acid-sol., phosphoprotein, and phospholipid fractions. P injected into one of the cerebral hemispheres is partly taken up by the other although in smaller amt. The injected P stays in the brain longer than in any of the other parenchymatous organs. A. Mirkin.

AVAKYAN, A.A.  
USSR/Medicine - Hemorrhagic Fever, Epidemiology FD-2593

Card 1/1 Pub. 148 - 4/25

Author : Avakyan, A. A. and Lebedev, A. D.

Title : The nature of natural reservoirs of hemorrhagic fevers

Periodical : Zhur. mikro. epid. i immun. 4, 20-26, Apr 1955

Abstract : Hemorrhagic fevers occurring in the USSR are grouped into two types: transmissive -- tick-borne, and zoogenous -- transmitted by direct or indirect contact with rodents. Crimean, Omsk, and Uzbekistan hemorrhagic fevers fall into the former category and Winter hemorrhagic fever and hemorrhagic nephroso-nephritis into the latter. The incidence, seasonality, distribution, and etiology of these diseases in the USSR are discussed. The vectors and hosts are specified. The article is illustrated by a chart showing the seasonal incidence of the various types. Fifteen Soviet references are cited.

Institution : Institute of Virology, Academy of Medical Sciences USSR (Director - M. P. Chumakov)

Submitted : March 20, 1954

AVAKYAN, A. A., VANAG, A. I.

Rapid method of detecting Negri bodies with a phase contrast microscope. Zhur.mikrobiol. epid. i immun. no.6:90-96 Je '55.  
(MLRA 8:9)

1. Iz Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR  
(dir.-prof. P.N. Kosyakov)

(RABIES, pathology.

Negri bodies, detection with phase contrast microscope)

(MICROSCOPE, PHASE,  
of Negri bodies)

USSR/Medicine - Amebiasis

FD-3318

Card 1/1 Pub. 148-14/24

Author : Avakyan, A. A.

Title : Characteristics of the causative agent, epidemiology, and clinical manifestations of amebiasis

Periodical : Zhur. mikro. epid. i immun. 10, 56-61, Oct 1955

Abstract : A comparison is made of foreign and Soviet views concerning the distribution and role of *Ent. histolytica* in northern, temperate, and tropical countries in amebic dysentery. Reporting on 1,656 cases observed in Yerevan (an endemic foci) he states that certain groups in that city have from 4 to 10 percent incidence. Emetin therapy is considered specific in this disease, and serves as a means of diagnosing the disease if effective. Regional, seasonal, and transmission characteristics are discussed. No references are cited.

Institution : ---

Submitted : May 7, 1956

AVAKYAN, A.A.; LEBEDEV, A.D.; RAVDONIKAS, O.V.; CHUMAKOV, M.P.

Role of mammals in the formation of a natural reservoir of the  
Omsk hemorrhagic fever. Zool. zhur. 34 no.3:605-608 My-Je '55.  
(MLRA 8:8)

1. Institut virusologii im. D.I. Ivanovskogo Akademii meditsin-  
skikh nauk SSSR.

(Hemorrhagic fever)

AVAKYAN, A. A., SERGIYENKO, A. D., and FADEYEVA, L. L.

"Data Concerning the Etiology of Hemorrhagic Fever Accompanied by a Nephritic Syndrome," a report discussed at one of six meetings of the Virological Section, Moscow Dept. All-Union Society of Microbiologists, Epidemiologists, and Infectionists imeni I. I. Mechnikov in 1955. Voprosy Virusologii, 1, No 2, 1956

Sum. 1003, 20 Jul 56

AVAKYAN, A.A.; SERGIYENKO, A.D.; FADNEYVA, L.L.

Material on the etiology of hemorrhagic fever with nephritic  
syndrome; preliminary report. Vop.virus. 1 no.4:19-25 J1-Ag '56.  
(MLRA 10:1)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.  
(EPIDEMIC HEMORRHAGIC FEVER, etiology and pathogenesis,  
(Rus))

AVAKYAN, A.A.; AKOPYAN, A.T.; BUSNYUK, M.M.

Phase contrast microscopy in virusology. Biofizika 1 no.4:383-386  
"56a (MLRA 9:9)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.  
(PHASE MICROSCOPE) (VIRUS RESEARCH)

*Avakyan, A.A.*  
AVAKYAN, A.A.

"Regional epidemiology of Transbaikalia"; a bibliography. Reviewed  
by A.A.Avakyan. Vop.virus. 1 no.6:61 N-D '56 (MIRA 11:3)  
(TRANSBAIKALIA--EPIDEMIOLOGY--BIBLIOGRAPHY)  
(BIBLIOGRAPHY--TRANSBAIKALIA--EPIDEMIOLOGY)

AVAKYAN, A.A.

Biological nature of dualpurpose grains. Izv.AN SSSR. Ser.biol.  
no.2:50-61 Mr-Ap '56. (MLRA 9:7)  
(GRAIN)

AVAKYAN, A.A.

USSR/Virology - Human and Animal Viruses

E-3

Abs Jour : Referat Zhurn - Biol. No 16, 25 Aug 1957, 68242

Author : Skobelskiy, M.D., Avakyan, A.A., Burak, A.I.

Title : Use of the Luminescent Method of Microscopy for  
Perfecting of Laboratory Diagnosis of Poliomyelitis.

Orig Pub : Vopr. Virusologiy, 1956, No 6, 58.

Abstract : HeLa(?) cells were cultured on cover glasses, filtrated, treated with acridine yellow (1:1000) and studied through a luminescent microscope. Regardless of the age of the culture, the protoplasm luminesced by a dull-green light, surrounding the far more luminous nucleus and small nuclei. Six hours after infection of the poliomyelite by the virus, thin sprouts of cells began to manifest orange-yellow illumination, which further enveloped adjacent portions of the protoplasm spreading from the periphery of the cell toward the nucleus. On the second day after the infection of the protoplasm, the nucleus

Card 1/2

- 10 -

USSR/Virology - Human and Animal Viruses

E-3

Abs Jour : Referat Zhurn - Biol. No 16, 25 Aug 1957, 68242

also began to luminesce with a flaming-yellow light.  
This luminescence did not arise when the specific  
immunizing serum was introduced into the culture  
together with the virus.

Card 2/2

- 11 -

USSR / Morphology of Man and Animals. Nervous System.

S-1

Abs Jour : Ref Zhur - Biol., No 5, 1958, No 21673

Author : Avakyan, A. A., Popova, L. M.

Inst : ~~Not given~~

Title : Luminescent Microscopy of the Normal Nerve Cells of the Anterior Horn of the Spinal Cord and in Poliomyelitis.

Orig Pub : Zh. nevroptol. i psikiatrii, 1956, 56, No 5, 375-381.

Abstract : The methods and the apparatus for luminescent microscopy of nervous tissue are described and the luminescent characteristics of various neural structures of the man, the monkey, the dog and the piglet when fluoro-chromoplated with acridine yellow are given. Bibliography data from the literature concerning a tigroid substance as a complex nucleoprotein containing RNA were substantiated. A study was made of the brain removed from eight children who had died of acute poliomyelitis, as well as 13 monkeys infected with this disease.

Card 1/2

6

AVAKYAN, A.A.

Second All-Union Conference on Electron Microscopy. Vop.virus.  
3 no.5:317-318 8-0 '58 (MIRA 11:10)  
(ELECTRON MICROSCOPY--CONGRESSES)

AKOPYAN, A.T., RAKHMALEVICH, Ye.M., AVAKYAN, A.A., OVCHINNIKOV, N.M.,  
ZALKAN, P.M., IYEVIEVA, YE.A., ~~FRANOVA, N.K.~~, ZERTSALOVA, G.I.

Experimental data on the study of causative agent of pemphigus in  
the developing chick embryo [with summary in English]. Vest.derm.  
i ven. 32 no.4:3-9 J1-Ag '58 (MIRA 11:10)

1. Iz tsentral'nogo kozhno-~~ven~~erologicheskogo instituta  
dir N.M. Turanov) i Instituta virusologii Akademii meditsinskikh  
nauk SSSR (dir. P.N. Kosyakov).  
(PEMPHIGUS, virus,  
culture in chick embryo (Rus))

AVAEYAN, A. A.; BUSNYUK, M. M.

Structure, composition, and development of intracellular viral inclusions.

Report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

AVAKYAN, A.A.; SHENSHILEVICH, S.B.; MESHCHENKO, V.M.

Hemorrhagic nephroso nephritis in Trans Carpathia hemorrhagic fever  
with renal syndrome. Vop. virus. 4 no.1:90-94 Ja-F '59. (MIRA 12:4)

1. Institut virusologii imeni D.I. Ivanovskogo ANN SSSR, Moskva.  
(EPIDEMIC HEMORRHAGIC FEVER, epidemiol.  
in Trans-Carpathian zone (Rus))

AVAKYAN, A.A. ; GAO TYAN'-SYAN' [Kao T'ien-hsing]

Study of the internal structure of the lymphogranulomatosis inguinale virus in ultrathin sections with the aid of the electron microscope.  
Vop.virus. 4 no.5:591-596 S-O '59. (MIRA 13:2)

1. Institut virusologii imeni D.I. Ivanovskogo i Institut po izucheniyu poliomyelita ANS SSSR, Moskva.  
(LYMPHOGRANULOMA INGUINALE, virology)

AVAKYAN, A.A.; LEVKOVICH, Ye.N.; BUSNYUK, M.M.

Morphology of nerve cells injured by viruses of tick-borne  
encephalitis and related diseases. Vop. virus. 5 no. 2:208-216  
My-S '60. (MIRA 14:4)

1. Institut virusologii imeni D.I. Ivanovskogo AMN SSSR i Institut  
po izucheniyu poliomyelita AMN SSSR, Moskva.  
(ENCEPHALITIS) (EPIDEMIC HEMORRHAGIC FEVER)  
(NERVOUS SYSTEM--DISEASES)

OVCHINNIKOV, N.M.; AKOPYAN, A.T.; SMELOV, N.S.; RAKHMALEVICH, E.M.;  
BELYAYEVA, E.F.; ZERTSALOVA, G.N.; ZALKIN, N.M.; REZNIKOVA, L.S.;  
AVAKYAN, A.A.

Data on the etiology of pemphigus. Borgyogy. vener. szemle 36 no.5:  
193-200 S '60.

1. Az Orosz Szocialista Szovetsegi Koztarsasag Egeszsegugyi  
Miniszteriuma Kozponti Bor-Nemikortani Intezetenek (Igazgato:  
Turanov N.M., az orvostudomanyok kandidatusa es a Poliomyelitis-  
kutato Intezet (Igazgato: prof. Csumakov M.I., a Szovjet  
Tudomanyos Akademia levelezo tagja) kozlemenye.  
(PEMPHIGUS etiol)

SHESTOPALOVA, N.M.; AVAKYAN, A.A.; REYNGOL'D, V.N.; TKAL', V.V.

Electron microscope study of the plastic processes of intestinal epithelium of various mammals. Arkh.anat.gist.i embr. 38 no.3:34-44 Mr '60. (MIRA 14:5)

1. Laboratoriya elektronnoy mikroskopii (zav. - doktor med. A.A. Avakyan) Instituta po izucheniyu poliomiellita. (DUODENUM)

SHESTOPALOVA, N.M.; AVAKYAN, A.A.; REUNGOL'D, V.N.

(Comparative electron microscopy of the structure of the duodenal epithelium of mammals and amphibians. TSitologiya 3 no. 2:125-136  
Mr-Apr '61. (MIRA 14:4)

L. Laboratoriya elektronnoy mikroskopii Instituta po izucheniyu  
polimiyelita AMN SSSR, Moskva.  
(EPITHELIUM) (ELECTRON MICROSCOPY)

AVAKYAN, A.A.; AL'TSHEYN, A.D.; KIRILLOVA, F.M.; BYKOVSKIY, A.F.

Means for the improvement of laboratory smallpox diagnosis. Vop.  
virus. 6 no.2:196-203 Mr-Apr '61. (MIRA 14:6)

1. Laboratoriya morfologii virusov i elektronnoy mikroskopii  
Instituta po izucheniyu poliomyelita AMN SSSR, Moskva.  
(SMALLPOX)

AVAKYAN, A.A.

Third All-Union Conference on Electron Microscopy.  
no.2:246-248 Mr-Apr '61.  
(ELECTRON MICROSCOPY--CONGRESSES)

Vop Virus. 6  
(MIRA 14:6)

YEREMIAN, A.V.; AVAKYAN, A.A.; ROMANOVA, A.P.

Case of smallpox with an atypical course not diagnosed during the patient's life. Vop.virus.7 no.5:597-601 S-O '62. (MIRA 15:11)

1. Klinicheskoye otdeleniye Instituta virusologii imeni D.I. Ivanovskogo AMN SSSR, Institut po izucheniyu poliomyelita AMN SSSR, 2-ya Moskovskaya klinicheskaya infektsionnaya bol'nitsa, Moskva.

(SMALLPOX)

GORKIN, V.Z.; AVAKYAN, A.A.; VEREVKINA, I.V.; KOMISSAROVA, N.V.

Use of zonal electrophoresis in vertical columns with a new anticonvection material (granulated polymethylmethacrylate) for purification of amino oxidase in the blood serum. Vop. med. khim. 8 no.6:638-645 N-D '62. (MIRA 17:5)

1. Laboratoriya biokhimi i drugikh azotistykh osnovaniy Instituta biologicheskoy i meditsinskoy khimii AMN SSSR, Moskva.

AKOPYAN, A.T.; AVAKYAN, A.A.

Morphological study of pemphigoid cells. Vest. dermat. i ven.  
37 no.6:9-12 Je '63. (MIRA 17:6)

1. Mikrobiologicheskiy otdel (zav. -- prof. N.M. Ovchinnikov)  
TSentral'nogo nauchno-issledovatel'skogo kozhno-venerologicheskogo  
instituta (dir. N.I. Turanov).

AVAKYAN, A.A.; AL'TSHTEYN, A.D.; YAN ZHU SI [Yang Ju-hsi]

Study of acute and chronic infection caused by tick-borne encephalitis virus in tissue culture. Report No.2: Dynamics of accumulation and mechanism of spread of the virus of tick-borne encephalitis in tissue culture. Vop. virus. no.6: 713-719 N-D '63. (MIRA 17:6)

1. Institut poliomielita i virusnykh entsefalitov AMN SSSR, Moskva.

ALEKSEYEV, I.V.; POLYAKOV, V.P.; AVAKYAN, A.A.

Simple thermostatic device for the SF-4 spectrophotometer.  
Vop. med. khim. 9 no.1:89-92 Ja-F '63. (MIRA 17:6)

1. Institut biologicheskoy i meditsinskoy khimii AMN SSSR,  
Moskva.

SARKISYAN, S. A.; AVAKYAN, A. A.

"Submicroscopic organisation of some Entamoeba species."

report submitted for 3rd European Regional Conf, Electron Microscopy,  
Prague, 26 Aug-3 Sep 64.

AVAKYAN, Arshaluys Aramovich, prof.; LARIN, Nikolay Vasil'yevich,  
zhurnalist; NIKOLAYEV, V.R., red.

[In the depths of the microcosm] V glubiny mikromira. Mo-  
skva, Znanie, 1964. 31 p. (Novoe v zhizni, nauke, tekhnike. VIII Seriya: Biologiya i meditsina, no.24)  
(MIRA 17:11)

AVAKYAN, A.A. BYKOVSKY, A.F. [Bykovskiy, A.F.]

The structure of intracellular variola virus. Acta virol.  
(Praha) [Eng.] 8 no.6:481-489 N '62

1. The Gamaleya Institute of Epidemiology and Microbiology.  
U.S.S.R. Academy of Medical Sciences, Moscow.

AVAKYAN, A.A. & AL'DINOV, A.D.

Study of acute and chronic infection caused by the virus of tick-borne encephalitis in tissue culture. Report No. 3:  
On the possible mechanism of chronic infection. Vop. virus.  
9 no. 5: 575-580 3-Q '64. (MIRA 18:6)

1. Institut polioimyelita i virusnykh entsefalitov AMN SSSR,  
Moskva.

AVAKYAN, A.A., gornyy inzh.; ZOLOTNITSKIY, Yu.I.; RAYKHEL', B.L.

Efficient conditions of mine operation. Ugol' 39 no.2:6-9 F '64.  
(MIRA 17:3)

1. Glavnyy inzh. shakhty No.62 "Kapital'naya" (for Zolotnitskiy).
2. Dneprepetrovskiy gosudarstvennyy institut po proyektirovaniyu shakhtnykh ustanobok (for Raykhel').

AVAKYAN, A.A.

Process of geological selection of pyrite individuals. Dokl.  
AN Arm. SSR 40 no.4:253-255 '65. (MIRA 13:6)

1. Institut geologicheskikh nauk AN Armyanskoy SSR. Submitted  
September 10, 1964.

AVAKYAN, A.A.; MKRTCHYAN, G.M.

Content of impurities in crystals of pyrite of different morphology.  
Dokl. AN ARM. SSR 41 no.2:112-117 '65. (MIRA 18:11)

1. Institut geologicheskikh nauk AN ArmSSR. Submitted February 3,  
1965.

AVAKYAN, A.B.; BUDYKO, M.I.; YUDIN, M.I.; OCHAKOVSKIY, Yu.Ye.; DAVYDOV, M.M.;  
ARMAND, D.L.; FEDOROVICH, B.A.; ZUBOV, N.N.; ANTIPOV-KARATAYEV, I.N.;  
SAPOZHNIKOVA, S.A.; ALISOV, B.P.; POTEYEV, I.M.

Discussion of reports of the meeting. Vop.geog. 28:74-96 '52. (MLRA 7:5)

1. Gidroenergoprojekt Ministerstva elektrostantsiy (for Avakyan).
2. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for Budyko and Yudin).
3. Institut okeanologii Akademii nauk SSSR (for Ochakovskiy).
4. Gidroenergoprojekt Ministerstva elektrostantsiy (for Davydov).
5. Institut geografii Akademii nauk SSSR (for Armand, Fedorovich, and Poteyev).
6. Geograficheskii fakul'tet Moskovskogo gosudarstvennogo universiteta (for Zubov and Alisov).
7. Pochvennyy institut im. V.V. Dokuchayeva Akademii nauk SSSR (for Antipov-Karatayev, I.N.).
8. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (for Sapozhnikova).

SOV/112-58-1-267

Translation from: Referativnyy zhurnal, Elektrotehnika, 1958, Nr 1, p 38 (USSR)

AUTHOR: Avakyan, A. B., and Vol'berg, D. B.

TITLE: Review of Power Installations in Switzerland (Obzor energetiki Shveysarii)

PERIODICAL: Energokh-vo za rubezhom, 1957, Nr 1, pp 1-8

ABSTRACT: Bibliographic entry.

AVAILABLE: Library of Congress

1. Power plants--Switzerland

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*Avakyan, A.B.*  
AVAKYAN, A.B., inzh.

~~CONFIDENTIAL~~  
Conference on over-all biological investigations of water reservoirs.  
Gidr.stroi.26 no.12:51-52 D '57. (MIRA 10:12)  
(Leningrad--Fresh-water biology--Congresses)

AUTHOR: Avakyan, A.B., Shapiro, L.N., and Sharapov, V.A., 98-58-4-11/18  
Engineers

TITLE: Some Questions Pertaining to Water Reservoir Projects (Nekotoryye voprosy proyektirovaniya vodokhranilishch)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 4, pp 45-47 (USSR)

ABSTRACT: These are answers to letters and questions on compensation of losses incurred by the flooding of land for water reservoirs. G.A. Chernyy is of the opinion that such losses are frequently minimized for the sake of boosting the effectiveness of hydrotechnical installations. The problem of such losses should be considered from three angles: 1) economic evaluation of the land to be sacrificed, 2) economic re-settling of the farming population, and 3) compensation for the loss of agricultural production in the flooded area. There exist no hard and fast rules, nor any universal method for solving this problem, since each case differs. Any compensatory action for land losses should be preceded by an economic analysis of each farm. All farms affected should be divided in two groups - those in need of compensation and those requiring no compensation. The case of each farm should then be considered individually and collectively, with a view to possible redistribution of the land and re-

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98-58-4-11/18

Some Questions Pertaining to Water Reservoir Projects

organization of the agricultural production. In view of the fact that construction of a hydroelectrical installation with an adjoining water reservoir brings about a change in the economic structure of the area in which it is located, a certain reorientation of the population should try to adapt the people to the new economic conditions. There are two Soviet references.

AVAILABLE: Library of Congress

Card 2/2

1. ~~Dams~~-Sociological factors
2. Water power-USSR
3. ~~Dams~~-Evaluation analysis

AUTHOR: Avakyan, A.B., Engineer

SOV/98-58-11-14/15

TITLE: A Scientific Conference on Problems of Hygiene of Water Reservoirs (Nauchnaya konferentsiya po voprosam gigiyeny vodokhranilishch)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 11, pp 63-64 (USSR)

ABSTRACT: The above mentioned conference took place in the Institut obshchey i kommunal'noy gigiyeny imeni A.N. Sysina Akademii meditsinskikh nauk SSSR. (The Institute of General and Communal Hygiene imeni A.N. Sysin of the Academy of Medical Sciences of the USSR) in summer 1958. About 200 persons representing different ministries, institutes and laboratories, as well as representatives of China and of the European satellites attended. All 33 lectures dealt with various problems of hygiene of water reservoirs. It was found that the quality of the water depended on: 1) the volume of industrial and community sewage; 2) the quality of the water

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A Scientific Conference on Problems of Hygiene of Water Reservoirs

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which flows into the reservoir; 3) the nature and preparation of the bottom of reservoirs; 4) the hydrological character of the reservoir; 5) its dimensions; and 6) the natural and economical properties of the reservoir in connection with its geographical location. Further study of sanitary and hygienic conditions was recommended.

1. Inland waterways--Analysis
2. Inland waterways--Properties
3. Public health--Safety measures

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14(6)

SOV/98-59-3-16/17

AUTHOR: Avakyan, A.B., Engineer

TITLE: An All-Union Conference on the Utilization of Water Reservoirs by the Fishing Industry (Vsesoyuznoye soveshchaniye po voprosam rybokhozyaystvennogo osvoeniya vodokhranilishch)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 3, pp 62-64 (USSR)

ABSTRACT: An all-Union Conference on the problem of development of fishing in water reservoirs was held in Leningrad at the end of 1958. A total of 350 representatives from 100 various organizations participated, 90 reports and announcements were heard and 60 persons took part in the discussions. A variety of topics were dealt with. The chief state inspector of Rosglavrosrybvod, A.I. Isayev, indicated that upon completion of the construction of new reservoirs for hydropower plants in the RSFSR alone, the fishing catch will exceed 1 million centners. Professor A.

Card 1/3 IV. Podlesnyy stated that the East Siberia reservoirs,

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An All-Union Conference on the Utilization of Water Reservoirs  
by the Fishing Industry

especially the Bratsk and the Krasnoyarsk reservoirs, will not only greatly expand the catch, but also extend the variety and quality of the catch. The chief of the fish-economic section of the Kiyev department of the Gidroroybproekt D.B. Makeyev stressed the importance of preparatory work. Professor P.V. Tyurin emphasized the significance of a permanent water level in the reservoir to the growth of fish. I.A. Lobov and T.S. Mokryak reported on the Tsimlyansk reservoir, which was stocked with 2,400,000 various fish over a period of 3 years. Z.M. Kipper told of the migration of fish into the reservoirs through the navigation locks. Candidate of Biological Sciences A.G. Gusev dwelt upon the problem of water pollution. About 220-230 million rubels - worth of fish died because of water pollution in the Volga basin alone. The participants attended a special exhibition in the lobby (electric fishing methods), and

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heard a report on the electric method applied in the Rybinsk reservoir, by V.A. Shentyakov and V. A. Strakhov. Workers of the Institut biologii vodo-khranilishch AN SSR (Institute of Biology of Water Reservoirs of the AS USSR) are studying the influence of ac and dc currents on fish. The results of the conference will be published.

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SOV/98-59-10-7/20

30(1)  
AUTHORS:

Meyerson, A.B., Candidate of Economic Sciences, and Avakyan, A.B.,  
Engineer

TITLE:

The Problem of the Allocation of Funds Spent on the Construction  
of Reservoirs

PERIODICAL:

Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 10, pp 25-30 (USSR)

ABSTRACT:

The article is in the nature of a discussion of the allocation of  
expenditure related to the construction of reservoirs, the total  
surface area of which, including lakes such as Baykal, Onegskoye,  
etc., amounts to 7 million hectares. Expenditure is divided into:  
1) General expenditure on construction; 2) special expenditure,  
connected with the use of the reservoir by some branch of the e-  
conomy, and 3) indirect expenditure on expansion, modernization,  
etc. The various proportions of the total expenditure on reser-  
voirs is shown in the table, which shows that about 70% goes to-  
ward the preparation, and in this connection 2 problems arise: the  
allocation of the available funds in proportion to the benefit  
derived from the reservoir as part of the GES, and the amount of

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The Problem of the Allocation of Funds Spent on the Construction of Reservoirs

funds to be allocated to cover the cost of transferring buildings and equipment to make way for the reservoirs. It is to the latter question that this article is mainly devoted. Such expenditure should be distinct from unproductive losses such as those caused by natural disasters, etc., and the socialist conception of reimbursable outlay is dwelt on briefly - financial outlay must be compensated for by the setting-up of means of production; the financial resources which can be regarded as reimbursable are enumerated (expenditure on the moving of population, research of the natural resources of the flooded area, etc.). Fig.1 shows in diagram form how the productive funds used on the area flooded are recovered, usually requiring isochronous construction instead of capital repairs, which provide for gradual recovery. Expenditure on the recovery of losses incurred by the flooding of an area is only required to restore the status quo as it was before flooding, i.e., to break even, and the correct calculation of this expenditure is of great importance. The authors proceed to deal with the recovery of unproductive funds, including personal property, which is carried out at the expense of the accumulation fund and citizens'

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The Problem of the Allocation of Funds Spent on the Construction of Reservoirs

personal income; this is normally realized in the form of electric energy produced by the GES. Diagrams of the recovery of unproductive funds are shown in figs.2 and 3. Touching on the question of whether the value of property destroyed by the flooding should be compensated for by the construction costs of the GES, the author finds that it should be compensated for by a sum equal to that spent on the dam, GES, etc.; in the event of compensation being more than adequate, it should be paid in the form of a lump sum. A quotation from Marx is included which states that compensation should only be paid for the results of human labor, not for the deprivation of natural elements. There are 3 diagrams and 1 table.

Card 3/3

AVAKYAN, A.B., inzh.; VOZDVIZHENSKIY, V.I., inzh.; SHARAPOV, V.A., inzh.

Ways of reducing expenses for preparatory operations in constructing reservoirs. Gidr.stroi. 29 no.3:28-31 Mr '60.  
(MIRA 13:6)

(Reservoirs)